

ABSTRACT OF THE DISCLOSURE

Transmission of electric and optical signal, realization of high-speed and high capacity of transmission of information signals. A base substrate section having an interconnect layer 5 formed on an insulating substrate by a printed circuit process; a micro interconnect circuit section having a micro electrical interconnect layer which is finer than the interconnect layer of the base substrate section, formed on an insulating resin layer by a semiconductor process; and an optical interconnect circuit 10 section adapted to transfer and/or receive an optical signal and provided with an optical wave-guide having an input section and an output section of a optical signal at opposite ends thereof; and at least a pair of optical elements composed of a light emitting device with a light emitting section thereof facing 15 the input section and a photo detecting device with a photo detecting section thereof facing the output section are provided and the micro interconnect circuit section and the optical interconnect circuit section are mounted on the base substrate section.